Index to Communications of the ACM

VOLUME 11 • 1968

The Index is presented in three sections: P. Bibliography; II. Author Index; III. Department Index.

ENTRIES are included for technical papers, reports and articles that appear in the Contents listings of the twelve issues of the year, plus letters to the editor of technical content. An Index by Subject to Algorithms, 1960–1961, appears on page 527–530 of this issue.

THE REFERENCE NUMBER for each entry is a key to the year, volume, issue, and page number of the item.

THE AUTHOR INDEX gives authors' names listed singly. For papers by multiple authors, each authors' name appears in alphabetical order. Thus the fact that an author's name is followed by the title of an article does not mean that he is necessarily the only author of that article; he may be one of two or more authors.

IN THE DEPARTMENT INDEX the year's contents are arranged under the following headings: Communications technical departments; special reports; proceedings issues; and letters to the editor (of technical content only).

I. BIBLIOGRAPHY

```
6811
                    IMPROVED HAMILTONIAN PATHS (LETTER, INCLUDES COMMENTS BY POHL) * DUBY, J.J.
6811 1
                   EXPLORATORY EXPERIMENTAL STUDIES COMPARING ON-LINE AND OFF-LINE PROGRAMMING PERFORMANCE : SACKMAN, H./ ERIKSON, W.J./
                   GRANT, E.E.
TOWARD A GENERAL PROCESSOR FOR PROGRAMMING LANGUAGES : HALPERN, M.I.
USE OF TRANSITION MATRICES IN COMPILING : GRIES, D.

CONTER STORAGE : MAURER, W.D.
6811
6811
             26
                   AN IMPROVED HASH CODE FOR SCATTER STORAGE : MAURER, W.D.
6811
             35
                   SCATTER STORAGE TECHNIQUES : MORRIS, R.
6811
             38
                   PRACTICAL ERROR COEFFICIENTS FOR ESTIMATING QUADRATURE ERRORS FOR ANALYTIC FUNCTIONS :: RABINOWITZ, P.
6811
                   IN-AND-OUT CONVERSIONS : MATULA, D.W.
A NUMERICAL INTEGRATION FORMULA USEFUL IN FOURIER ANALYSIS : MEISEL, W.S.
             47
6811
6811
            51
                   FURTHER COMMENT ON THE COMPUTATION OF LEAST SQUARES POLYNOMIALS (LETTER) : GENTLEMAN, W.M.
6811
            73
                   TRANSLATOR WRITING SYSTEMS :: FELDMAN, J./ GRIES, D. PROGRAM OVERLAY TECHNIQUES :: PANKHURST, R.J.
6811
            77
        2 119
6811
        2 126
                   PROPOSED USA STANDARD-GENERAL PURPOSE ALPHANUMERIC KEYBOARD ARRANGEMENT FOR INFORMATION INTERCHANGE * ASA X3
6811
6811
        2 130
                   PROPOSED USA STANDARD-USASCSOCR DUAL CASE KEYBOARD ARRANGEMENT # ASA X3
                   GO TO STATEMENT CONSIDERED HARMFUL (LETTER) : DIJKSTRA, E.W.
LANGUAGE PROTECTION BY TRADEMARK ILL-ADVISED (LETTER, INCLUDES MODER'S REPLY) : GALLER, B.A.
        3 147
6811
6811
        3 148
                   NO TROUBLE WITH ATLAS I PAGE-TURNING MECHANISM (LETTER) " HOWLETT, J.

ON PRACTICALITY OF SIEVING TECHNIQUES VS. THE SIEVING ALGORITHM (LETTER) " HOWLAND, J.E.
DEALING WITH NEELY'S ALGORITHMS (LETTER) " VAN REEKEN, A.J.

ABBREVIATIONS FOR COMPUTER AND MEMORY SIZES (LETTER) " MORRISON, D.R.
6811
        3 149
6811
        3 149
6811
        3 149
        3 150
3 150
6811
                   IN DEFENSE OF LANGDON'S ALGORITHM (LETTER) : RODDEN, B.E.
6811
                   ENDORSING THE ILLINOIS POST MORTEM DUMP (LETTER) :: CLARK, S.R.
        3 150
6811
6811 3 151
                   CURRICULUM 68-RECOMMENDATIONS FOR ACADEMIC PROGRAMS IN COMPUTER SCIENCE-A REPORT OF THE ACM CURRICULUM COMMITTEE ON
                      COMPUTER SCIENCE
        3 198
                   RULES OF ETHICS IN INFORMATION PROCESSING # PARKER, D.B.
6811
                   THE EXPANDING WORLD OF COMPUTERS : HARDER, E.L.
       4 231
6811
        4 240
                   A GLOBAL PARSER FOR CONTEXT-FREE PHRASE STRUCTURE GRAMMARS : CORRECTION IN JUNE 1968 P427 : UNGER, S.H.
6811
       4 247
6811
                   A GENERAL PURPOSE GRAPHIC LANGUAGE : KULSRUD, H.E.
                   QUASILINEARIZATION AND THE ESTIMATION OF DIFFERENTIAL OPERATORS FROM EIGENVALUES : BELLMAN, R.E. / KAGIWADA, H.H./
6811
                   KALABA, R.E./ VASUDEVAN, R. EXPENDITURES, SOURCES OF FUNDS, AND UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH AND INSTRUCTION IN HIGHER EDUCATION: 1964-65 WITH PROJECTIONS FOR 1968-69 :: HAMBLEN, J.W.
6811 4 257
                   PANEL DISCUSSION ON COMPUTER APPRECIATION :: ORGANICK, E.I.
PROPOSED USA STANDARD-DATA CODE FOR CALENDAR DATE FOR MACHINE-TO-MACHINE DATA INTERCHANGE :: ASA X3
6811
        4 263
6811
        4 273
6811
        4 275
                   PROPOSED USA STANDARD-HOLLERITH PUNCHED CARD CODE :: ASA X3
                   ON USING A GRAPHIC INPUT TABLET (LETTER) :: YARBROUGH, L.D.
6811
        5 294
                   DYNAMIC STORAGE ALLOCATION SYSTEMS : RANDELL, B./ KUEHNER, C.J.
VIRTUAL MEMORY, PROCESSES, AND SHARING IN MULTICS :: DALEY, R.C./ DENNIS, J.B.
RESOURCE MANAGEMENT FOR A MEDIUM SCALE TIME-SHARING OPERATING SYSTEM :: OPPENHEIMER, G./ WEIZER, N.
6811
        5 297
        5 306
6811
6811
        5 313
                  THE WORKING SET MODEL FOR PROGRAM BEHAVIOR : DENNING, P.J.

CONSIDERATIONS IN THE DESIGN OF A MULTIPLE COMPUTER SYSTEM WITH EXTENDED CORE STORAGE : FUCHEL, K./ HELLER, S.

THE STRUCTURE OF "THE"-MULTIPROGRAMMING SYSTEM : DIJKSTRA, E.W.

A SCHEDULING PHILOSOPHY FOR MULTIPROCESSING SYSTEMS : LAMPSON, B.W.
6811
        5 323
6811
        5 334
6811
        5 341
        5 347
6811
                   THREE CRITERIA FOR DESIGNING COMPUTING SYSTEMS TO FACILITATE DEBUGGING " VAN HORN, E.C.
        5 360
6811
                   PROTECTION IN AN INFORMATION PROCESSING UTILITY : GRAHAM, R.M. A POSITION PAPER ON COMPUTING AND COMMUNICATIONS : DENNIS, J.B.
        5 365
6811
        5 370
6811
                   GATHERING OF MISLEADING DATA WITH LITTLE REGARD FOR PRIVACY (LETTER) : ABBOTT, R.J.
6811
        5 377
                   COMMENTS ON "AN IMPROVED HASH CODE FOR SCATTER STORAGE" (LETTER, INCLUDES REPLIES BY MAURER AND BAMBERGER) :
       5 378
6811
6811
        6 391
                   ON THE DEVELOPMENT OF A NEW COMMON COMPUTER LANGUAGE (LETTER) : SHAW, C.J.
                  PROPOSED ABBREVIATION FOR 1024: DK (LETTER) # GIVENS, W.

ON THE EVALUATION OF MULTIPLICATIVE COMBINATORIAL EXPRESSIONS (LETTER) # MCKAY, J.K.S.

AN AUXILIARY PROGRAM TO ANALYZE LISP 1.5 PROGRAMS (LETTER) # BAHR, K.

GENERATING PERMUTATIONS BY NESTED CYCLING (LETTER) # LANGDON, JR., G.G.

STABLE NUMERICAL METHODS FOR OBTAINING THE CHEBYSHEV SOLUTION TO AN OVERDETERMINED SYSTEM OF EQUATIONS # BARTELS, R.H./
6811
        6 391
6811 6 392
6811 6 392
6811
       6 392
6811 6 401
                  GOLUB, G.H.

RELIABLE FULL-DUPLEX FILE TRANSMISSION OVER HALF-DUPLEX TELEPHONE LINES : LYNCH, W.C.
                  RELIABLE FULL-DUPLEX FILE TRANSMISSION OVER MALF-DOTLER.
ON THE DESIGN OF DISPLAY PROCESSORS # MYER, T.H./ SUTHERLAND, I.E.
ON THE DESIGN OF DISPLAY # OPHIR. D./ RANKOWITZ, S./ SHEPHERD, B.J./ SPINRAD, R.J.
6811
        6 407
        6 410
6811
        6 415
6811
        6 417
                   AN INEXPENSIVE BRAILLE TERMINAL DEVICE : ANDERSON, G.B./ ROGERS, D.W.
                   REGULAR EXPRESSION SEARCH ALGORITHM :: THOMPSON, K.
       6 419
```

BIBLIOGRAPHY

```
WRITING AN ONLINE DEBUGGING PROGRAM FOR THE EXPERIENCED USER # BRADY, F.T.
 6811
              6 423
              6 441
                                HEADING FORMAT FOR DATA TRANSMISSION-A USASI TUTORIAL # ASA X3
 6811
              6 449
                                A FUTURES MARKET IN COMPUTER TIME # SUTHERLAND, I.E.
 6811
                              A FUTURES MARKET IN COMPUTER TIME * SUTHERLAND, I.E.

FURTHER EXPERIMENTAL DATA ON THE BEHAVIOR OF PROGRAMS IN A PAGING ENVIRONMENT * COFFMAN, E.G./ VARIAN, L.C.

NUMBER OF POSSIBLE STRATEGIES WHEN WRITING COMPILERS (LETTER ) * GOOD, I.J.

ONE WAY OF ESTIMATING FREQUENCIES OF JUMPS IN A PROGRAM * KRAL, J.

PRELIMINARY INVESTIGATION OF TECHNIQUES FOR AUTOMATED READING OF UNFORMATTED TEXT * NAGY, G.

A SIMPLE PROOF OF LEWIN'S ORDERED-RETRIEVAL THEOREM FOR ASSOCIATIVE MEMORIES * WOLINSKY, A.

A GENERALIZED PARTIAL PASS BLOCK SORT * BAYES, A.

COMPUTER CONSTRUCTION OF PROJECT NETWORKS * FISHER, A.C./ LIEBMAN, J.S./ NEMHAUSER, G.L.

METHODS OF CONVERGENCE IMPROVEMENT FOR SOME IMPROPER INTEGRALS * MCWILLIAMS, G.V./ THOMPSON, R.W.

DETERMINATION OF THE INTERSECTION POINTS OF TWO PLANE CURVES BY MEANS OF DIFFERENTIAL EQUATIONS * KUIKEN, H.K.

MASTEP'S LEVEL COMPUTER SCIENCE CURRICULA * FILIOTT. R.W.
  6811
              7 471
  6811
                  474
  6811
              7 475
 6811
                  480
 6811
              7 488
                  491
 6811
              7 493
 6811
                  499
 6811
 6811
                  502
                                MASTER'S LEVEL COMPUTER SCIENCE CURRICULA : ELLIOTT, R.W.
 6811
                 507
                                A METHODOLOGY FOR CALCULATING AND OPTIMIZING REAL-TIME SYSTEM PERFORMANCE : STIMLER, S./ BRONS, K.A.
 6811
                  509
                               "LOGICAL" ARITHMETIC ON COMPUTERS WITH TWO'S COMPLEMENT BINARY ARITHMETIC # EHRMAN, J.R. GENERATING PRIME IMPLICANTS VIA TERNARY ENCODING AND DECIMAL ARITHMETIC # DIETMEYER, D.L./ DULEY, J.R.
 6811
              7 517
 6811
              7 520
                               THE GO TO STATEMENT RECONSIDERED (LETTER, INCLUDES REPLY BY DIJKSTRA) # RICE, J.R.

CORRECTIONS TO STONE'S COMPILER PROCEDURES (LETTER) # DEVEBER, J.L.

ON OVERCOMING HIGH-PRIORITY PARALYSIS IN MULTIPROGRAMMING SYSTEMS: A CASE HISTORY # STEVENS, D.F.

RECOVERY OF DISK CONTENTS AFTER SYSTEM FAILURE (INCORRECTLY APPEARED IN THE INFORMATION RETRIEVAL DEPARTMENT #
 6811
             8 538
 6811
             8 538
             8 539
8 542
 6811
 6811
                              RECOVERY OF DISK CONTENTS AFTER STSTEM FAILURE (INCORRECTLY APPEARED IN THE INFORMATION RETRIE LOCKEMANN, P.C./ KNUTSEN, W.D.

WHEN YOUR COMPUTER NEEDS A LAWYER # BANZHAF III, J.F.

ASP-A RING IMPLEMENTED ASSOCIATIVE STRUCTURE PACKAGE # LANG, C.A./ GRAY, J.C.

A MODIFICATION OF EFROYMSON'S TECHNIQUE FOR STEPWISE REGRESSION ANALYSIS # BREAUX, H.J.

A NOTE ON THE EFFICIENCY OF A LISP COMPUTATION IN A PAGED MACHINE # BOBROW, D.G./ MURPHY, D.L.

GENERATION OF POSITIVE TEST MATRICES WITH KNOWN POSITIVE SPECTRA # HALL, C.A./ PORSCHING, T.A.
 6811
             8 543
 6811
6811
             8 550
            8 556
 6811
6811
                 558
             8 559
                               CHAMP-CHARACTER MANIPULATION PROCEDURES : STORM, E.F. ACCOMMODATING STANDARDS AND IDENTIFICATION OF PROGRAMMING LANGUAGES : MODERS, C.N.
6811
             8 561
 6811
             8 574
                              COMMENTARY ON MR. MODER'S PAPER : STEEL, JR., T.B.
PROPOSED USA STANDARD-SYNCHRONOUS SIGNALING RATES FOR DATA TRANSMISSION : ASA X3
ON CONGRESSMAN BROOKS LETTER RE STANDARDIZATION (LETTER) :: FITZGERALD, A.Y
PROPOSED LIBRARY OF PROGRAMS FOR PERSONNEL AND RELATED WORK (LETTER) :: MAPP, G.A.
6811
             8 576
6811
             8 577
 6811
             9 593
             9 593
9 594
 6811
                               A BASE FOR LANGUAGE DEFINITION (LETTER) " BENNETT, R.K.

ON COMPUTER APPRECIATION IN THE UNDERGRADUATE CURRICULUM (LETTER) " KRISCHER, J.P.

PEEKABIT, COMPUTER OFFSPRING OF PUNCHED CARD PEEKABOO, FOR NATURAL LANGUAGE SEARCHING " HUTTON, F.C.
6811
6811
6811
             9 594
             9
                 595
                               EXPERIMENTAL EVALUATION OF INFORMATION RETRIEVAL THROUGH A TELETYPEWRITER # RUBINOFF, M./ BERGMAN, S./ FRANKS, W./
6811 9 598
                               A STATISTICAL MODEL FOR CONSOLE BEHAVIOR IN MULTIUSER COMPUTERS : DENNING, P.J.
                               GRAPHICAL INPUT/OUTPUT OF NONSTANDARD CHARACTERS # HAYASHI, H./ DUNCAN, S./ KUNO, S.
AN ALGORITHM FOR IDENTIFYING THE ERGODIC SUBCHAINS AND TRANSIENT STATES OF A STOCHASTIC MATRIX # FOX, B.L./ LANDI, D.M.
 6811
             9 613
 6811
             9 619
                              PLEXUS-AN ON-LINE SYSTEM FOR MODELING NEURAL NETWORKS : DILL, J.C./ RANDALL, D.L./ RICHER, I.

AN ALGORITHM FOR THE PROBABILITY OF THE UNION OF A LARGE NUMBER OF EVENTS : MILLER, G.D.

GPL, A TRULY GENERAL PURPOSE LANGUAGE : GARWICK, J.V.

NUMERICAL SOLUTION OF A THIN PLATE HEAT TRANSFER PROBLEM : STEWART III, G.W./ LICK, D.W.

A COMPARISON OF THE CORRELATIONAL BEHAVIOR OF RANDOM NUMBER GENERATORS FOR THE IBM 360 :: WHITTLESEY, J.R.B:
6811
             9 622
6811
             9 630
           9 634
6811
 6811
6811 9 641
6811 10 657
                              A MACHINE ALGORITHM FOR PROCESSING CALENDAR DATES (LETTER) :: FLIEGEL, H.F./ VAN FLANDERN, T.C.
                              ON "PRIME PHRASE" IN FELDMAN AND GRIES PAPER (LETTER) : ABRAHAMS, P.
6811 10 657
                              DO YOU USE MICHROFICHE? (LETTER) : WOOSTER, H. COMMENT ON CURRICULUM 68 (LETTER) : WISHNER, R.P.
6811 10 657
 6811 10 658
                              ON BINARY NOTATION (LETTER) # MARTIN, B.A.
COMPUTER SYNTHESIS OF HOLOGRAMS FOR 3-D DISPLAY # LESEM, L.B./ HIRSCH, P.M./ JORDAN, JR., J.A.
 6811 10 658
6811 10 661
                              GAN, A SYSTEM FOR GENERATING AND ANALYZING ACTIVITY NETWORKS : SCHURMANN, A.
6811 10 675
                              AMBIGUITY IN LIMITED ENTRY DECISION TABLES : KING, P.J.H.

BOOLEAN MATRIX METHODS FOR THE DETECTION OF SIMPLE PRECEDENCE GRAMMARS :: MARTIN, D.F.

THE IMPLEMENTATION OF A BASIC SYSTEM IN A MULTIPROGRAMMING ENVIRONMENT :: BRADEN, H.V./ WULF, W.A.

EASY ENGLISH, A LANGUAGE FOR INFORMATION RETRIEVAL THROUGH A REMOTE TYPEWRITER CONSOLE :: RUBINOFF, M./ BERGMAN, S./

CAUTIN, H./ RAPP, F.
6811 10 680
6811 10 685
6811 10 688
6811 10 693
                              A GENERAL-PURPOSE DISPLAY PROCESSING AND TUTORIAL SYSTEM # ENGVOLD, K.J./ HUGHES, J.L.

A FAST FOURIER TRANSFORM ALGORITHM FOR REAL-VALUED SERIES # BERGLAND, G.D.

AUTOMATA, FORMAL LANGUAGES, ABSTRACT SWITCHING, AND COMPUTABILITY IN A PH.D. COMPUTER SCIENCE PROGRAM (DOCTORAL PROGRAM SERIES) # MCNAUGHTON, R.
6811 10 697
6811 10 703
6811 11 736
                              STORAGE ORGANIZATION IN PROGRAMMING SYSTEMS : JODEIT, J.G.
THE LRLTRAN COMPILER : MENDICINO, S.F./ HUGHES, R.A./ MARTIN, J.T./ MCMAHON, F.H./ RANELLETTI, J.E./ ZWAKENBERG, R.G.
A NOTE ON RELEVANCE ESTIMATE AND ITS IMPROVEMENT : KORFHAGE, R.R.
6811 11 739
6811 11 745
6811 11 754
                             A NOTE ON RELEVANCE ESTIMATE AND ITS IMPROVEMENT : KORFHAGE, R.R.

ONE-LINE RANDOM NUMBER GENERATORS AND THEIR USE IN COMBINATIONS : MARSAGLIA, G./ BRAY, T.A.

APPROXIMATE SOLUTION OF INITIAL BOUNDARY WAVE EQUATION PROBLEMS BY BOUNDARY VALUE TECHNIQUES :: GREENSPAN, D.

PRACTICAL ERROR COEFFICIENTS IN THE INTEGRATION OF PERIODIC ANALYTIC FUNCTIONS BY THE TRAPEZOIDAL RULE : RABINOWITZ, P.

A PHONOLOGICAL RULE TESTER :: BOBROW, D.G./ FRASER, J.B.

CORRESPONDENCES OF 8-BIT AND HOLLERITH CODES FOR COMPUTER ENVIRONMENTS: A USASI TUTORIAL :: ASA X3

SIMULATION OF ONE ABSTRACT COMPUTING MACHINE BY ANOTHER (LETTER) :: HERMAN, G.T.

PROPRIETARY PACKAGES: A POINT OF VIEW (LETTER, INCLUDES REPLY BY FINERMAN) :: GALLER, B.A./ PINKERTON, T.B./
6811 11 755
6811 11 758
6811 11 760
6811 11 764
6811 11 781
6811 12 801
6811 12 802
                                   ARDEN, B.W.
6811 12 802
                              ON MASTER'S LEVEL CURRICULA SURVEY (LETTER) : MANIOTES, J.
6811 12 805
                              AUTOMATIC GENERATION OF EFFICIENT LEXICAL PROCESSORS USING FINITE-STATE TECHNIQUES (A TUTORIAL) # JOHNSON, W.L./
                             PORTER, J.H./ ACKLEY, S.I./ ROSS, D.T.

AN ALGORITHM FOR DERIVING THE EQUATIONS OF MATHEMATICAL PHYSICS BY SYMBOLIC MANIPULATION # HOWARD, J.C./ TASHJIAN, H. COMPUTATIONAL LINGUISTICS IN A PH.D. COMPUTER SCIENCE PROGRAM (DOCTORAL PROGRAM SERIES) # KUNO, S./ OETTINGER, A.G. ANALYSIS OF ALGORITHMS FOR THE ZERO-ONE PROGRAMMING PROBLEM # GUE, R.L./ LIGGETT, J.C./ CAIN, K.C.
6811 12 814
6811 12 831
6811 12 837
                              THE IMPLEMENTATION OF THE SHARER2 TIME-SHARING SYSTEM : HARRISON, M.C.
6811 12 845
6811 12 846
                              PROPOSED USA STANDARD-PROCEDURES FOR THE STANDARDIZATION PROCESS :: ASA X3
```

PROPOSED USA STANDARD-CODE EXTENSION PROCEDURES FOR INFORMATION INTERCHANGE : ASA X3

6811 12 849

68

68

68

68

II. AUTHOR INDEX

```
ABBOTT, R.J.
ABRAHAMS, P.
ACKLEY, S.I.
ANDERSON, G.B.
6811 5 377
6811 10 657
6811 12 805
                                            GATHERING OF MISLEADING DATA WITH LITTLE REGARD FOR PRIVACY (LETTER)
                                            ON "PRIME PHRASE" IN FELDMAN AND GRIES PAPER (LETTER)
                                            AUTOMATIC GENERATION OF EFFICIENT LEXICAL PROCESSORS USING FINITE-STATE TECHNIQUES (A TUTORIAL)
 6811 6 417
                                             AN INEXPENSIVE BRAILLE TERMINAL DEVICE
                   ARDEN, B.W.
                                            PROPRIETARY PACKAGES: A POINT OF VIEW (LETTER, INCLUDES REPLY BY FINERMAN)
PROPOSED USA STANDARD-GENERAL PURPOSE ALPHANUMERIC KEYBOARD ARRANGEMENT FOR INFORMATION
 6811 12 802
 6811
       2 126
                   ASA X3
                                               INTERCHANGE
                                            PROPOSED USA STANDARD-USASCSOCR DUAL CASE KEYBOARD ARRANGEMENT
PROPOSED USA STANDARD-DATA CODE FOR CALENDAR DATE FOR MACHINE-TO-MACHINE DATA INTERCHANGE
                   ASA X3
6811
        2 130
       4 273
                  ASA X3
 6811
                                             PROPOSED USA STANDARD-HOLLERITH PUNCHED CARD CODE
                   ASA X3
6811
                                             HEADING FORMAT FOR DATA TRANSMISSION--A USASI TUTORIAL
          441
                   ASA X3
 6811
        6
          577
                   ASA X3
                                            PROPOSED USA STANDARD-SYNCHRONOUS SIGNALING RATES FOR DATA TRANSMISSION
        8
6811
6811 11 781
                                             CORRESPONDENCES OF 8-BIT AND HOLLERITH CODES FOR COMPUTER ENVIRONMENTS: A USASI TUTORIAL
                   ASA X3
                                             PROPOSED USA STANDARD-PROCEDURES FOR THE STANDARDIZATION PROCESS
6811 12 846
                   ASA X3
 6811 12 849
                  ASA X3
                                             PROPOSED USA STANDARD-CODE EXTENSION PROCEDURES FOR INFORMATION INTERCHANGE
                  BAHR, K.
        6 392
                                             AN AUXILIARY PROGRAM TO ANALYZE LISP 1.5 PROGRAMS (LETTER)
6811
                   BANZHAF III, J.F.
6811
        8 543
                                            WHEN YOUR COMPUTER NEEDS A LAWYER
                                            STABLE NUMERICAL METHODS FOR OBTAINING THE CHEBYSHEV SOLUTION TO AN OVERDETERMINED SYSTEM OF
6811
        6 401
                   BARTELS, R.H.
                                               EQUATIONS
                  BAYES, A.
BELLMAN, R.E.
BENNETT, R.K.
BERGLAND, G.D.
BERGMAN, S.
                                            A GENERALIZED PARTIAL PASS BLOCK SORT
QUASILINEARIZATION AND THE ESTIMATION OF DIFFERENTIAL OPERATORS FROM EIGENVALUES
       7 491
4 255
6811
6811
                                            A BASE FOR LANGUAGE DEFINITION (LETTER)
        9 594
6811
                                            A FAST FOURIER TRANSFORM ALGORITHM FOR REAL-VALUED SERIES EXPERIMENTAL EVALUATION OF INFORMATION RETRIEVAL THROUGH A TELETYPEWRITER
6811 10 703
       9 598
6811
                                            EASY ENGLISH, A LANGUAGE FOR INFORMATION RETRIEVAL THROUGH A REMOTE TYPEWRITER CONSOLE COMMENTS ON "AN IMPROVED HASH CODE FOR SCATTER STORAGE" (LETTER INCLUDES REPLIES BY MAURER AND
6811 10 693
                  BERGMAN, S.
6811 5 378
                  BEYER, J.D.
                                               BAMBERGER)
                  BOBROW, D.G.
BOBROW, D.G.
6811 11 764
                                              PHONOLOGICAL RULE TESTER
                                            A NOTE ON THE EFFICIENCY OF A LISP COMPUTATION IN A PAGED MACHINE
6811 8 558
                  BRADEN, H.V.
BRADY, P.T.
BRAY, T.A.
BREAUX, H.J.
                                            THE IMPLEMENTATION OF A BASIC SYSTEM IN A MULTIPROGRAMMING ENVIRONMENT WRITING AN ONLINE DEBUGGING PROGRAM FOR THE EXPERIENCED USER
6811 10 688
6811 6 423
6811 11.755
                                            ONE-LINE RANDOM NUMBER GENERATORS AND THEIR USE IN COMBINATIONS
      8 556
7 509
                                            A MODIFICATION OF EFROYMSON'S TECHNIQUE FOR STEPWISE REGRESSION ANALYSIS
6811
                                            A METHODOLOGY FOR CALCULATING AND OPTIMIZING REAL-TIME SYSTEM PERFORMANCE
                  BRONS, K.A. CAIN, K.C.
6811
6811 12 837
                                            ANALYSIS OF ALGORITHMS FOR THE ZERO-ONE PROGRAMMING PROBLEM
                                            EASY ENGLISH, A LANGUAGE FOR INFORMATION RETRIEVAL THROUGH A REMOTE TYPEWRITER CONSOLE ENDORSING THE ILLINOIS POST MORTEM DUMP (LETTER)
6811 10 693
                  CAUTIN, H.
                  CLARK, S.R.
6811
       3 150
                  COFFMAN, E.G.
                                            FURTHER EXPERIMENTAL DATA ON THE BEHAVIOR OF PROGRAMS IN A PAGING ENVIRONMENT
6811
          471
                                            VIRTUAL MEMORY, PROCESSES, AND SHARING IN MULTICS
THE WORKING SET MODEL FOR PROGRAM BEHAVIOR
        5 306
                  DALEY, R.C.
6811
6811
          323
                  DENNING, P.J.
                  DENNING, P.J. DENNIS, J.B.
                                            A STATISTICAL MODEL FOR CONSOLE BEHAVIOR IN MULTIUSER COMPUTERS
6811
        9
          605
                                            VIRTUAL MEMORY, PROCESSES, AND SHARING IN MULTICS
A POSITION PAPER ON COMPUTING AND COMMUNICATIONS
CORRECTIONS TO STONE'S COMPILER PROCEDURES (LETTER)
GENERATING PRIME IMPLICANTS VIA TERNARY ENCODING AND DECIMAL ARITHMETIC
GO TO STATEMENT CONSIDERED HARMFUL (LETTER)
6811
        5 306
6811
        5 370
                  DENNIS, J.B.
                 DEVEBER, J.L.
DIETMEYER, D.L.
DIJKSTRA, E.W.
DIJKSTRA, E.W.
DILL, J.C.
DUBY, J.J.
        8 538
6811
       7 520 3 147
6811
6811
                                            THE STRUCTURES OF "THE"-MULTIPROGRAMMING SYSTEM
       5 341
6811
      -9 622
                                            PLEXUS-AN ON-LINE SYSTEM FOR MODELING NEURAL NETWORKS
6811
                                            IMPROVED HAMILTONIAN PATHS (LETTER, INCLUDES COMMENTS BY POHL)
GENERATING PRIME IMPLICANTS VIA TERNARY ENCODING AND DECIMAL ARITHMETIC
                  DUBY, J.J.
DULEY, J.R.
6811
6811
       7 520
                                            GRAPHICAL INPUT/OUTPUT OF NONSTANDARD CHARACTERS
"LOGICAL" ARITHMETIC ON COMPUTERS WITH TWO'S COMPLEMENT BINARY ARITHMETIC
MASTER'S LEVEL COMPUTER SCIENCE CURRICULA
       9 613
                  DUNCAN, S.
6811
                 EHRMAN, J.R.
ELLIOTT, R.W.
ENGVOLD, K.J.
ERIKSON, W.J.
      7 517
6811
6811
          507
                                            A GENERAL-PURPOSE DISPLAY PROCESSING AND TUTORIAL SYSTEM
6811 10 697
                                            EXPLORATORY EXPERIMENTAL STUDIES COMPARING ON-LINE AND OFF-LINE PROGRAMMING PERFORMANCE
6811
       1
                  FELDMAN, J.
FISHER, A.C.
FITZGERALD, A.K.
          . 77
                                            TRANSLATOR WRITING SYSTEMS
6811
       .2
                                            COMPUTER CONSTRUCTION OF PROJECT NETWORKS
       7.493
6811
                                            ON CONGRESSMAN BROOKS LETTER RE STANDARDIZATION (LETTER)
       9 593
6811
6811 10 657
                  FLIEGEL, H.F.
                                            A MACHINE ALGORITHM FOR PROCESSING CALENDAR DATES (LETTER)
                  FOX, B.L.
FRANKS, W.
                                            AN ALGORITHM FOR IDENTIFYING THE ERGODIC SUBCHAINS AND TRANSIENT STATES OF A STOCHASTIC MATRIX
6811
      9 619
6811
                                            EXPERIMENTAL EVALUATION OF INFORMATION RETRIEVAL THROUGH A TELETYPEWRITER
       9 598
                  FRASER, J.B.
FUCHEL, K.
GALLER, B.A.
                                            A PHONOLOGICAL RULE TESTER
6811 11 764
6811 5 334
                                            CONSIDERATIONS IN THE DESIGN OF A MULTIPLE COMPUTER SYSTEM WITH EXTENDED CORE, STORAGE
                                            LANGUAGE PROTECTION BY TRADEMARK ILL-ADVISED (LETTER, INCLUDES MOOER'S REPLY)
PROPRIETARY PACKAGES: A POINT OF VIEW (LETTER, INCLUDES REPLY BY FINERMAN)
GPL, A TRULY GENERAL PURPOSE LANGUAGE
6811
       3 148
6811 12 802
                  GALLER, B.A.
                  GARWICK, J.V. GIVENS, W.
6811
      9 634
                                            PROPOSED ABBREVIATION FOR 1024: K (LETTER)
                  GIVENS, W. GENTLEMAN, W.M.
6811
       6 391
                                            FURTHER COMMENT ON THE COMPUTATION OF LEAST SQUARES POLYNOMIALS (LETTER)
6811
       2
           73
                                            STABLE NUMERICAL METHODS FOR OBTAINING THE CHEBYSHEV SOLUTION TO AN OVERDETERMINED SYSTEM OF
6811 6 401
                  GOLUB, G.H.
                                              EQUATIONS
      7 474
                                            NUMBER OF POSSIBLE STRATEGIES WHEN WRITING COMPILERS (LETTER)
6811
                  GOOD, I.J.
                 GRAHAM, R.M. GRANT, E.E.
                                            PROTECTION IN AN INFORMATION PROCESSING UTILITY
6811
       5 365
6811
                                            EXPLORATORY EXPERIMENTAL STUDIES COMPARING ON-LINE AND OFF-LINE PROGRAMMING PERFORMANCE
      8 550
                                            ASP-A RING IMPLEMENTED ASSOCIATIVE STRUCTURE PACKAGE
                                            APPROXIMATE SOLUTION OF INITIAL BOUNDARY WAVE EQUATION PROBLEMS BY BOUNDARY VALUE TECHNIQUES
6811 11 758
                  GREENSPAN, D.
6811 1 26
6811 2 77
                                            USE OF TRANSITION MATRICES IN COMPILING
                  GRIES, D.
                         D.
                                            TRANSLATOR WRITING SYSTEMS
                  GRIES,
                                           ANALYSIS OF ALGORITHMS FOR THE ZERO-ONE PROGRAMMING PROBLEM GENERATION OF POSITIVE TEST MATRICES WITH KNOWN POSITIVE SPECTRA
6811 12 837
                  GUE, R.L.
6811 8 559
6811 1 15
                  HALL, C.A.
                                            TOWARD A GENERAL PROCESSOR FOR PROGRAMMING LANGUAGES
                 HALPERN, M.I.
```

M.

AUTHOR INDEX

```
EXPENDITURES, SOURCES OF FUNDS, AND UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH AND INSTRUCTION IN HIGHER EDUCATION: 1964-65 WITH PROJECTIONS FOR 1968-69
6811 4
           257
                  HAMBLEN, J.W.
                                          THE EXPANDING WORLD OF COMPUTERS
6811
           231
                  HARDERN, E.L.
                                          THE IMPLEMENTATION OF THE SHARER2 TIME-SHARING SYSTEM GRAPHICAL INPUT/OUTPUT OF NONSTANDARD CHARACTERS
                  HARRISON, M.C.
HAYASHI, H.
 6811 12
           613
 6811
      9
                  HELLER, S.
HERMAN, G.T.
HIRSCH, P.M.
                                          CONSIDERATIONS IN THE DESIGN OF A MULTIPLE COMPUTER SYSTEM WITH EXTENDED CORE STORAGE
6811
           334
6811 12
                                          SIMULATION OF ONE ABSTRACT COMPUTING MACHINE BY ANOTHER (LETTER)
           801
                                          COMPUTER SYNTHESIS OF HOLOGRAMS FOR 3-D DISPLAY
6811 10
           661
                                          AN ALGORITHM FOR DERIVING THE EQUATIONS OF MATHEMATICAL PHYSICS BY SYMBOLIC MANIPULATION
6811 12
           814
                  HOWARD, J.C.
                  HOWLAND, J.E.
                                          ON PRACTICALITY OF SIEVING TECHNIQUES VS. THE SIEVING ALGORITHM (LETTER)
6811
 6811
                  HOWLETT, J.
                                          NO TROUBLE WITH ATLAS I PAGE-TURNING MECHANISM (LETTER)
                  HUGHES, J.L.
HUGHES, R.A.
6811 10
           697
                                          A GENERAL-PURPOSE DISPLAY PROCESSING AND TUTORIAL SYSTEM
6811 11
           745
                                          THE LRLTRAN COMPILER
                                         PEEKABIT, COMPUTER OFFSPRING OF PUNCHED CARD PEEKABOO, FOR NATURAL LANGUAGE SEARCHING STORAGE ORGANIZATION IN PROGRAMMING SYSTEMS
AUTOMATIC GENERATION OF EFFICIENT LEXICAL PROCESSORS USING FINITE-STATE TECHNIQUES (A TUTORIAL)
6811
       9
           595
                  HUTTON, F.C.
6811 11
           739
                  JODEIT, J.G.
                  JOHNSON, W.L.
6811 12
           805
                  JORDAN, JR., J.A.
KAGIWADA, H.H.
                                          COMPUTER SYNTHESIS OF HOLOGRAMS FOR 3-D DISPLAY
6811,10
           661
                                          QUASILINEARIZATION AND THE ESTIMATION OF DIFFERENTIAL OPERATORS FROM EIGENVALUES
6811
           255
                  KALABA, R.E.
KING, P.J.H.
6811 4
                                          QUASILINEARIZATION AND THE ESTIMATION OF DIFFERENTIAL OPERATORS FROM EIGENVALUES
          255
6811 10
                                          AMBIGUITY IN LIMITED ENTRY DECISION TABLES
                  KNUTSEN, W.D.
                                          RECOVERY OF DISK CONTENTS AFTER SYSTEM FAILURE (INCORRECTLY APPEARED IN THE INFORMATION RETRIEVAL
6811
       8
           542
                                             DEPARTMENT)
6811 11
           754
                  KORFHAGE, R.R.
                                          A NOTE ON RELEVANCE ESTIMATE AND ITS IMPROVEMENT
                                         ONE WAY OF ESTIMATING FREQUENCIES OF JUMPS IN A PROGRAM ON COMPUTER APPRECIATION IN THE UNDERGRADUATE CURRICULUM (LETTER)
                  KRAL, J.
KRISCHER, J.P.
6811
           475
6811
       9
          594
                                         DYNAMIC STORAGE ALLOCATION SYSTEMS
DETERMINATION OF THE INTERSECTION POINTS OF TWO PLANE CURVES BY MEANS OF DIFFERENTIAL EQUATIONS
A GENERAL PURPOSE GRAPHIC LANGUAGE
GRAPHICAL INPUT/OUTPUT OF NONSTANDARD CHARACTERS
                 KUEHNER, C.J.
       5
6811
          297
6811
          502
                 KUIKEN, H.K.
          247
                  KULSRUD, H.E.
6811
                 KUNO, S.
6811
       9
          613
                                         COMPUTATIONAL LINGUISTICS IN A PH.D. COMPUTER SCIENCE PROGRAM (DOCTORAL PROGRAM SERIES)
6811 12
          831
6811
      5
          347
                  LAMPSON, B.W.
                                         A SCHEDULING PHILOSOPHY FOR MULTIPROCESSING SYSTEMS
                                          AN ALGORITHM FOR IDENTIFYING THE ERGODIC SUBCHAINS AND TRANSIENT STATES OF A STOCHASTIC MATRIX
6811
          619
                  LANDI, D.M.
                  LANG, C.A.
                                          ASP-A RING IMPLEMENTED ASSOCIATIVE STRUCTURE PACKAGE
6811
          550
                  LANGDON, JR., G.G.
          392
                                         GENERATING PERMUTATIONS BY NESTED CYCLING (LETTER)
6811
                                         COMPUTER SYNTHESIS OF HOLOGRAMS FOR 3-D DISPLAY NUMERICAL SOLUTION OF A THIN PLATE HEAT TRANSFER PROBLEM COMPUTER CONSTRUCTION OF PROJECT NETWORKS
6811 10
          661
                  LESEM, L.B.
6811
     9
          639
                 LICK, D.W.
                 LIEBMAN, J.S.
LIGGETT, J.C.
LOCKEMANN, P.C.
6811
      7
          493
                                          ANALYSIS OF ALGORITHMS FOR THE ZERO-ONE PROGRAMMING PROBLEM
6811 12
          837
                                         RECOVERY OF DISK CONTENTS AFTER SYSTEM FAILURE (INCORRECTLY APPEARED IN THE INFORMATION RETRIEVAL
6811
       8
          542
                                             DEPARTMENT)
6811
     6
          407
                 LYNCH, W.C.
                                         RELIABLE FULL-DUPLEX FILE TRANSMISSION OVER HALF-DUPLEX TELEPHONE LINES
                 MANIOTES, J.
MAPP, G.A.
MARSAGLIA, G.
6811 12
          802
                                         ON MASTER'S LEVEL CURRICULA SURVEY (LETTER)
                                         PROPOSED LIBRARY OF PROGRAMS FOR PERSONNEL AND RELATED WORK (LETTER)
6811
      9
          593
6811 11
                                         ONE-LINE RANDOM NUMBER GENERATORS AND THEIR USE IN COMBINATIONS
          755
6811 10
          658
                 MARTIN, B.A.
                                         ON BINARY NOTATION (LETTER)
                 MARTIN, D.F.
          685
                                         BOOLEAN MATRIX METHODS FOR THE DETECTION OF SIMPLE PRECEDENCE GRAMMARS
6811 10
6811 11
          745
                 MARTIN, J.T.
                                         THE LRLTRAN COMPILER
                 MATULA, D.W.
MAURER, W.D.
6811
           47
                                         IN-AND-OUT CONVERSIONS
                                         AN IMPROVED HASH CODE FOR SCATTER STORAGE
6811
      1
           35
                                         ON THE EVALUATION OF MULTIPLICATIVE COMBINATORIAL EXPRESSIONS (LETTER)
                 MCKAY, J.K.S.
MCMAHON, F.H.
      6
6811
          392
6811 11
          745
                                         THE LRLTRAN COMPILER
                                         AUTOMATA, FORMAL LANGUAGES, ABSTRACT SWITCHING, AND COMPUTABILITY IN A PH.D. COMPUTER SCIENCE PROGRAM (DOCTORAL PROGRAM SERIES)
                 MCNAUGHTON, R.
          736
6811 11
                 MCWILLIAMS, G.V.
                                         METHODS OF CONVERGENCE IMPROVEMENT FOR SOME IMPROPER INTEGRALS
6811 7
          499
                 MEISEL, W.S. .
                                         A NUMERICAL INTEGRATION FORMULA USEFUL IN FOURIER ANALYSIS
6811
           51
                 MENDICINO, S.F.
6811 11
                                         THE LRLTRAN COMPILER
          630
                 MILLER, G.D.
                                         AN ALGORITHM FOR THE PROBABILITY OF THE UNION OF A LARGE NUMBER OF EVENTS
6811
      8
          574
                 MOOERS, C.N.
                                         ACCOMMODATING STANDARDS AND IDENTIFICATION OF PROGRAMMING LANGUAGES
6811
6811
           38
                 MORRIS, R.
                                         SCATTER STORAGE TECHNIQUES
6811
       3
          150
                 MORRISON, D.R.
                                         ABBREVIATIONS FOR COMPUTER AND MEMORY SIZES (LETTER)
                                         A NOTE ON THE EFFICIENCY OF A LISP COMPUTATION IN A PAGED MACHINE ON THE DESIGN OF DISPLAY PROCESSORS
                 MURPHY, D.L.
MYER, T.H.
6811
      . 8
          558
6811
      6
          410
                 NAGY, G.
NEMHAUSER, G.L.
                                         PRELIMINARY INVESTIGATION OF TECHNIQUES FOR AUTOMATED READING OF UNFORMATTED TEXT
6811
          480
          493
                                         COMPUTER CONSTRUCTION OF PROJECT NETWORKS
6811
                 OETTINGER, A.G.
6811 12
          831
                                         COMPUTATIONAL LINGUISTICS IN A PH.D. COMPUTER SCIENCE PROGRAM (DOCTORAL PROGRAM SERIES)
                                         BRAD: THE BROOKHAVEN RASTER DISPLAY
6811
      6
          415
                 POHIR, D.
          313
6811
                 OPPENHEIMER, G.
                                         RESOURCE MANAGEMENT FOR A MEDIUM SCALE TIME-SHARING OPERATING SYSTEM
                                         PANEL DISCUSSION ON COMPUTER APPRECIATION
6811
          263
                 ORGANICK, E.I.
6811
      2
          119
                 PANKHURST, R.J.
                                         PROGRAM OVERLAY TECHNIQUES
                 PARKER, D.B.
                                         RULES OF ETHICS IN INFORMATION PROCESSING
6811
          198
                 PINKERTON, T.B.
                                         PROPRIETARY PACKAGES: A POINT OF VIEW (LETTER, INCLUDES REPLY BY FINERMAN) GENERATION OF POSITIVE TEST MATRICES WITH KNOWN POSITIVE SPECTRA
6811 12
          802
6811
      8
          559
                 PORSCHING, T.A.
                                         AUTOMATIC GENERATION OF EFFICIENT LEXICAL PROCESSORS USING FINITE-STATE TECHNIQUES (A TUTORIAL)
                 PORTER, J.H. RABINOWITZ, P.
6811 12
          805
                                         PRACTICAL ERROR COEFFICIENTS FOR ESTIMATING QUADRATURE ERRORS FOR ANALYTIC FUNCTIONS
           45
6811
      1
                                         PRACTICAL ERROR COEFFICIENTS IN THE INTEGRATION OF PERIODIC ANALYTIC FUNCTIONS BY THE TRAPEZIODAL
6811 11 760
                 RABINOWITZ, P.
                                             RULE
6811 9
          622
                 RANDALL, D.L.
                                         PLEXUS-AN ON-LINE SYSTEM FOR MODELING NEURAL NETWORKS
                                         DYNAMIC STORAGE ALLOCATION SYSTEMS
6811 5
          297
                 RANDELL, B.
                                         THE LRLTRAN COMPILER
6811 11
          745
                 RANELLETTI, J.E.
                                         BRAD: THE BROOKHAVEN RASTER DISPLAY
6811 6
          415
                 RANKOWITZ, S.
```

68 68 68

68

68 68 68

AUTHOR INDEX

6811 10 693	RAPP, F.	EASY ENGLISH, A LANGUAGE FOR INFORMATION RETRIEVAL THROUGH A REMOTE TYPEWRITER CONSOLE
6811 8 538	RICE, J.R.	THE GO TO STATEMENT RECONSIDERED (LETTER, INCLUDES REPLY BY DIJKSTRA)
6811 9 622	RICHER, I.	PLEXUS-AN ON-LINE SYSTEM FOR MODELING NEURAL NETWORKS
6811 3 150	RODDEN, B.E.	IN DEFENSE OF LANGDON'S ALGORITHM (LETTER)
6811 6 417	ROGERS, D.W.	AN INEXPENSIVE BRAILLE TERMINAL DEVICE
6811 12 805	ROSS, D.T.	AUTOMATIC GENERATION OF EFFICIENT LEXICAL PROCESSORS USING FINITE-STATE TECHNIQUES (A TUTORIAL)
6811 9 598	RUBINOFF, E.R.	EXPERIMENTAL EVALUATION OF INFORMATION RETRIEVAL THROUGH A TELETYPEWRITER
6811 9 598	RUBINOFF, M.	EXPERIMENTAL EVALUATION OF INFORMATION RETRIEVAL THROUGH A TELETYPEWRITER
6811 10 693	RUBINOFF, M.	EASY ENGLISH, A LANGUAGE FOR INFORMATION RETRIEVAL THROUGH A REMOTE TYPEWRITER CONSOLE
6811 1 3	SACKMAN, H.	EXPLORATORY EXPERIMENTAL STUDIES COMPARING ON-LINE AND OFF-LINE PROGRAMMING PERFORMANCE
6811 10 675	SCHURMANN, A.	GAN, A SYSTEM FOR GENERATING AND ANALYZING ACTIVITY NETWORKS
6811 6 391	SHAW, C.J.	ON THE DEVELOPMENT OF A NEW COMMON COMPUTER LANGUAGE (LETTER)
6811 6 415	SHEPHERD, B.J.	BRAD: THE BROOKHAVEN RASTER DISPLAY
6811 6 415	SPINRAD, R.J.	BRAD: THE BROOKHAVEN RASTER DISPLAY
6811 8 576	STEEL, JR., T.B.	COMMENTARY ON MR. MOOER'S PAPER
6811 8 539	STEVENS, D.F.	ON OVERCOMING HIGH-PRIORITY PARALYSIS IN MULTIPROGRAMMING SYSTEMS: A CASE HISTORY
6811 9 639	STEWART III, G.W.	NUMERICAL SOLUTION OF A THIN PLATE HEAT TRANSFER PROBLEM
6811 7 509	STIMLER, S.	A METHODOLOGY FOR CALCULATING AND OPTIMIZING REAL-TIME SYSTEM PERFORMANCE
6811 8 561		CHAMP-CHARACTER MANIPULATION PROCEDURES
6811 6 410	SUTHERLAND, I.E.	ON THE DESIGN OF DISPLAY PROCESSORS
6811 6 449	SUTHERLAND, I.E.	A FUTURES MARKET IN COMPUTER TIME
6811 12 814	TASHUIAN, H.	AN ALGORITHM FOR DERIVING THE EDQUATIONS OF MATHEMATICAL PHYSICS BY SYMBOLIC MANIPULATION
6811 6 419	THOMPSON, K.	REGULAR EXPRESSION SEARCH ALGORITHM
6811 7 499	THOMPSON, R.W.	METHODS OF CONVERGENCE IMPROVEMENT FOR SOME TIMPROPER INTEGRALS
6811 4 240	UNGER, S.H.	A GLOBAL PARSER FOR CONTEXT-FREE PHRASE STRUCTURE GRAMMARS :: CORRECTION IN JUNE 1968 P427
6811 10 657	VAN FLANDERN, T.C.	A MACHINE ALGORITHM FOR PROCESSING CALENDAR DATES (LETTER)
6811 5 360		THREE CRITERIA FOR DESIGNING COMPUTING SYSTEMS TO FACILITATE DEBUGGING
6811 3 149	VAN REEKEN, A.J.	DEALING WITH NEELY'S ALGORITHMS (LETTER)
6811 7 471	VARIAN, L.C.	FURTHER EXPERIMENTAL DATA ON THE BEHAVIOR OF PROGRAMS IN A PAGING ENVIRONMENT
6811 4 255	VASUDEVAN, R.	QUASILINEARIZATION AND THE ESTIMATION OF DIFFERENTIAL OPERATORS FROM EIGENVALUES
6811 5 313	WEIZER, N.	RESOURCE MANAGEMENT FOR A MEDIUM SCALE TIME-SHARING OPERATING SYSTEM
6811 9 641	WHITTLESEY, J.R.B.	A COMPARISON OF THE CORRELATIONAL BEHAVIOR OF RANDOM NUMBER GENERATORS FOR THE IBM 360
6811 10 658	WISHNER, R.P.	COMMENT ON CURRICULUM 68 (LETTER)
6811 7 488	WOLINSKY, A.	A SIMPLE PROOF OF LEWIN'S ORDERED-RETRIEVAL THEOREM FOR ASSOCIATIVE MEMORIES
6811 10 657		DO YOU USE MICROFICHE? (LETTER)
6811 10 688	WULF, W.A.	THE IMPLEMENTATION OF A BASIC SYSTEM IN A MULTIPROGRAMMING ENVIRONMENT
6811 5 294	YARBROUGH, L.D.	DO YOU USE MICROFICHE? (LETTER) THE IMPLEMENTATION OF A BASIC SYSTEM IN A MULTIPROGRAMMING ENVIRONMENT ON USING A GRAPHIC INPUT TABLET (LETTER)
	ZWAKENBERG, R.G.	THE LRLTRAN COMPILER
3 1 5		

III. DEPARTMENT INDEX

BUSINESS APPLICATIONS

- A GENERALIZED PARTIAL PASS BLOCK SORT # BAYES, A.
- 6811 7 491 6811 7 493 COMPUTER CONSTRUCTION OF PROJECT NETWORKS # FISHER, A.C./ LIEBMAN, J.S./ NEMHAUSER, G.L. AMBIGUITY IN LIMITED ENTRY DECISION TABLES # KING, P.J.H.
- 6811 10 680
- ANALYSIS OF ALGORITHMS FOR THE ZERO-ONE PROGRAMMING PROBLEM # GUE, R.L./ LIGGETT, J.C./ CAIN, K.C. 6811 12 837

COMPUTATIONAL LINGUISTICS

- GRAPHICAL INPUT/OUTPUT OF NONSTANDARD CHARACTERS : HAYASHI, H./ DUNCAN, S./ KUNO, S. 6811 9 613
- 6811 11 764
- A PHONOLOGICAL RULE TESTER # BOBROW, D.G./ FRASER, J.B.
 AUTOMATIC GENERATION OF EFFICIENT LEXICAL PROCESSORS USING FINITE-STATE TECHNIQUES (A TUTORIAL) # JOHNSON, W.L./ 6811 12 805 PORTER, J.H./ ACKLEY, S.I./ ROSS, D.T.

COMPUTER SYSTEMS

- 6811 6 407 RELIABLE FULL-DUPLEX FILE TRANSMISSION OVER HALF-DUPLEX TELEPHONE LINES : LYNCH, W.C.
- 6 410 ON THE DESIGN OF DISPLAY PROCESSORS # MYER, T.H./ SUTHERLAND, I.E.

EDUCATION

- CURRICULUM 68-RECOMMENDATIONS FOR ACADEMIC PROGRAMS IN COMPUTER SCIENCE-A REPORT OF THE ACM CURRICULUM COMMITTEE ON 6811 3 151 COMPUTER SCIENCE
- EXPENDITURES, SOURCES OF FUNDS, AND UTILIZATION OF DIGITAL COMPUTERS FOR RESEARCH AND INSTRUCTION IN HIGHER EDUCATION: 1964-65 WITH PROJECTIONS FOR 1968-69 : HAMBLEN, J.W. 6811 4 257
- PANEL DISCUSSION ON COMPUTER APPRECIATION # ORGANICK, E. I. 6811 4 263
- 6811 7 507
- 6811 10 697
- 6811 11 736
- MASTER'S LEVEL COMPUTER SCIENCE CURRICULA " ELLIOTT, R.W.

 A GENERAL-PURPOSE DISPLAY PROCESSING AND TUTORIAL SYSTEM " ENGVOLD, K.J./ HUGHES, J.L.

 AUTOMATA, FORMAL LANGUAGES, ABSTRACT SWITCHING, AND COMPUTABILITY IN A PH.D. COMPUTER SCIENCE PROGRAM (DOCTORAL PROGRAM SERIES) " MCNAUGHTON, R.

 COMPUTATIONAL LINGUISTICS IN A PH.D. COMPUTER SCIENCE PROGRAM (DOCTORAL PROGRAM SERIES) " KUNO, S./ OETTINGER, A.G. 6811 12 831

DEPARTMENT INDEX

INFORMATION RETRIEVAL

- A SIMPLE PROOF OF LEWIN'S ORDERED-RETRIEVAL THEOREM FOR ASSOCIATIVE MEMORIES : WOLINSKY, A. 6811 7 488
- 6811 8 543
- 6811 9 595
- WHEN YOUR COMPUTER NEEDS A LAWYER * BANZHAF III, J.F.
 PEEKABIT, COMPUTER OFFSPRING OF PUNCHED CARD PEEKABOO, FOR NATURAL LANGUAGE SEARCHING * HUTTON, F.C.
 EXPERIMENTAL EVALUATION OF INFORMATION RETRIEVAL THROUGH A TELETYPEWRITER * RUBINOFF, M./ BERGMAN, S./ FRANKS, W./ 6811 9 598
- RUBINOFF, E.R.

 EASY ENGLISH, A LANGUAGE FOR INFORMATION RETRIEVAL THROUGH A REMOTE TYPEWRITER CONSOLE # RUBINOFF, M./ BERGMAN, S./
 CAUTIN, H./ RAPP, F.

 A NOTE ON RELEVANCE ESTIMATE AND ITS IMPROVEMENT # KORFHAGE, R.R. 6811 10 693
- 6811 11 754

NUMERICAL ANALYSIS

- PRACTICAL ERROR COEFFICIENTS FOR ESTIMATING QUADRATURE ERRORS FOR ANALYTIC FUNCTIONS : RABINOWITZ, P. 6811 1
- 6811 1 47
- IN-AND-OUT CONVERSIONS : MATULA, D.W.
 A NUMERICAL INTEGRATION FORMULA USEFUL IN FOURIER ANALYSIS : MEISEL, W.S. 6811 51
- QUASILINEARIZATION AND THE ESTIMATION OF DIFFERENTIAL OPERATORS FROM EIGENVALUES & BELLMAN, R.E. / KAGIWADA, H.H./ KALABA, R.E. / VASUDEVAN, R. 6811 4 255
- 6811 6 401 STABLE NUMERICAL METHODS FOR OBTAINING THE CHEBYSHEV SOLUTION TO AN OVERDETERMINED SYSTEM OF EQUATIONS # BARTELS, R.H./
- GOLUB, G.H. METHODS OF CONVERGENCE IMPROVEMENT FOR SOME IMPROPER INTEGRALS : MCWILLIAMS, G.V./ THOMPSON, R.W. 6811
- DETERMINATION OF THE INTERSECTION POINTS OF TWO PLANE CURVES BY MEANS OF DIFFERENTIAL EQUATIONS : KUIKEN, H.K. 6811 7 502
- 559 GENERATION OF POSITIVE TEST MATRICES WITH KNOWN POSITIVE SPECTRA # HALL, C.A./ PORSCHING, T.A. 6811
- 6811 9 639
- NUMERICAL SOLUTION OF A THIN PLATE HEAT TRANSFER PROBLEM # STEWART III, G.W./ LICK, D.W. A COMPARISON OF THE CORRELATIONAL BEHAVIOR OF RANDOM NUMBER GENERATORS FOR THE IBM 360 # WHITTLESEY, J.R.B. 6811 9 641
- 6811 10 703
- A FAST FOURIER TRANSFORM ALGORITHM FOR REAL-VALUED SERIES " BERGLAND, G.D.

 APPROXIMATE SOLUTION OF INITIAL BOUNDARY WAVE EQUATION PROBLEMS BY BOUNDARY VALUE TECHNIQUES " GREENSPAN, D. 6811 11 758
- 6811 11 755
- ONE-LINE RANDOM NUMBER GENERATORS AND THEIR USE IN COMBINATIONS # MARSAGLIA, G./ BRAY, T.A.

 PRACTICAL ERROR COEFFICIENTS IN THE INTEGRATION OF PERIODIC ANALYTIC FUNCTIONS BY THE TRAPEZOIDAL RULE # RABINOWITZ, P. 6811 11 760

OPERATING SYSTEMS

- EXPLORATORY EXPERIMENTAL STUDIES COMPARING ON-LINE AND OFF-LINE PROGRAMMING PERFORMANCE " SACKMAN, H./ ERIKSON, W.J. 6811 1 3 GRANT, E.E.
- PROGRAM OVERLAY TECHNIQUES : PANKHURST, R.J. 6811 2 119
- 7 471 FURTHER EXPERIMENTAL DATA ON THE BEHAVIOR OF PROGRAMS IN A PAGING ENVIRONMENT : COFFMAN, E.G., VARIAN, L.C. 6811
- ON OVERCOMING HIGH-PRIORITY PARALYSIS IN MULTIPROGRAMMING SYSTEMS: A CASE HISTORY & STEVENS, D.F. A STATISTICAL MODEL FOR CONSOLE BEHAVIOR IN MULTIUSER COMPUTERS & DENNING, P.J. 6811 8 539
- 6811 9 605
- 6811 12 845 THE IMPLEMENTATION OF THE SHARER2 TIME-SHARING SYSTEM # HARRISON, M.C.

PROGRAMMING LANGUAGES

- TOWARD A GENERAL PROCESSOR FOR PROGRAMMING LANGUAGES # HALPERN, M.I. 6811
- USE OF TRANSITION MATRICES IN COMPILING # GRIES, D. 6811
- 6811 2 77 TRANSLATOR WRITING SYSTEMS # FELDMAN, J. / GRIES, D.
- 6811 4 240 A GLOBAL PARSER FOR CONTEXT-FREE PHRASE STRUCTURE GRAMMARS # CORRECTION IN JUNE 1968 P 427 # UNGER, S.H.
- 6811 4 247 A GENERAL PURPOSE GRAPHIC LANGUAGE * KULSRUD, H.E.
- 6811 8 561 CHAMP-CHARACTER MANIPULATION PROCEDURES # STORM, E.F.
- 6811 9 634
- 6811 10 685
- 6811 10 688
- GPL, A TRULY GENERAL PURPOSE LANGUAGE * GARWICK, J.V.

 BOOLEAN MATRIX METHODS FOR THE DETECTION OF SIMPLE PRECEDENCE GRAMMARS * MARTIN, D.F.

 THE IMPLEMENTATION OF A BASIC SYSTEM IN A MULTIPROGRAMMING ENVIRONMENT * BRADEN, H.V./ WULF, W.A.

 THE LRLTRAN COMPILER * MENDICINO, S.F./ HUGHES, R.A./ MARTIN, J.T./ MCMAHON, F.H./ RANELLETTI, J.E./ ZWAKENBERG, R.G. 6811 11 745

PROGRAMMING TECHNIQUES

- AN IMPROVED HASH CODE FOR SCATTER STORAGE : MAURER, W.D. 6811
- 6811 38
- SCATTER STORAGE TECHNIQUES : MORRIS, R. REGULAR EXPRESSION SEARCH ALGORITHM : THOMPSON, K. 6 419 6811
- 6811 6 423 WRITING AN ONLINE DEBUGGING PROGRAM FOR THE EXPERIENCED USER # BRADY, P.T.
- 7 517 7 520 6811 6811
- 8 542 6811
- "LOGICAL" ARITHMETIC ON COMPUTERS WITH TWO'S COMPLEMENT BINARY ARITHMETIC & EHRMAN, J.R.

 GENERATING PRIME IMPLICANTS VIA TERNARY ENCODING AND DECIMAL ARITHMETIC & DIETMEYER, D.L./ DULEY, J.R.

 RECOVERY OF DISK CONTENTS AFTER SYSTEM FAILURE (INCORRECTLY APPEARED IN THE INFORMATION RETRIEVAL DEPARTMENT) &

 LOCKEMANN, P.C./ KNUTSEN, W.D.
- 6811 8 550
- ASP-A RING IMPLEMENTED ASSOCIATIVE STRUCTURE PACKAGE # LANG, C.A. GRAY, J.C. A MODIFICATION OF EFROYMSON'S TECHNIQUES FOR STEPWISE REGRESSION ANALYSIS # BREAUX, H.J. 6811 8 556
- 6811 8 558 A NOTE ON THE EFFICIENCY OF A LISP COMPUTATION IN A PAGED MACHINE : BOBROW, D.G. / MURPHY, D.L.
- 9 630 AN ALGORITHM FOR THE PROBABILITY OF THE UNION OF A LARGE NUMBER OF EVENTS : MILLER, G.D.
- 6811 11 739 STORAGE ORGANIZATION IN PROGRAMMING SYSTEMS # JODEIT, U.G.

SCIENTIFIC APPLICATIONS

- BRAD: THE BROOKHAVEN RASTER DISPLAY # OPHIR, D./ RANKOWITZ, S./ SHEPHERD, B.J./ SPINRAD, R.J. AN INEXPENSIVE BRAILLE TERMINAL DEVICE # ANDERSON, G.B./ ROGERS, D.W. ONE WAY OF ESTIMATING FREQUENCIES OF JUMPS IN A PROGRAM # KRAL, J. PRELIMINARY INVESTIGATION OF TECHNIQUES FOR AUTOMATED READING OF UNFORMATTED TEXT # NAGY, G. 6811 6 415
- 6 417 6811
- 6811 7 475

6811 6811

6811

6811

6811 6811

6811 6811

6811 6811

6811

6811

6811

6811 6811

6811

6811

6811

6811

6811 6811

6811

6811

6811

6811

6811

6811

6811 6811

6811

6811

6811

6811

6811

6811

6811

6811

6811 6811 6811

6811 6811

6811

6811

6811

6811

6811

6811

6811 6811

6811

6811

6811

6811

6811 6811 6811

6811 6811

6811

6811

6811

Vol

DEPARTMENT INDEX

- AN ALGORITHM FOR IDENTIFYING THE ERGODIC SUBCHAINS AND TRANSIENT STATES OF A STOCHASTIC MATRIX " FOX, B.L./ LANDI, D.M. PLEXUS-AN ON-LINE SYSTEM FOR MODELING NEURAL NETWORKS " DILL, J.C./ RANDALL, D.L./ RICHER, I. COMPUTER SYNTHESIS OF HOLOGRAMS FOR 3-D DISPLAY " LESEM, L.B./ HIRSCH, P.M./ JORDAN, JR., J.A. AN ALGORITHM FOR DERIVING THE EQUATIONS OF MATHEMATICAL PHYSICS BY SYMBOLIC MANIPULATION " HOWARD, J.C./ TASHUIAN, H. 6811 9 619 6811 9 622
- 6811 12 814

STANDARDS

- PROPOSED USA STANDARD-GENERAL PURPOSE ALPHNUMERIC KEYBOARD ARRANGEMENT FOR INFORMATION INTERCHANGE # ASA X3 PROPOSED USA STANDARD-USASCSOCR DUAL CASE KEYBOARD ARRANGEMENT # ASA X3 PROPOSED USA STANDARD-DATA CODE FOR CALENDAR DATE FOR MACHINE-TO-MACHINE DATA INTERCHANGE # ASA X3 PROPOSED USA STANDARD-HOLLERITH PUNCHED CARD CODE # ASA X3 2 126 2 130 6811
- 6811
- 4 273 6811
- 6811 4 275
- HEADING FORMAT FOR DATA TRANSMISSION-A USASI TUTORIAL # ASA X3 6811 6 441 A METHODOLOGY FOR CALCULATING AND OPTIMIZING REAL-TIME SYSTEM PERFORMANCE : STIMLER, S. / BRONS, K.A. 7 509 6811
- ACCOMMODATING STANDARDS AND IDENTIFICATION OF PROGRAMMING LANGUAGES & MODERS, C.N. COMMENTARY ON MR. MODER'S PAPER & STEEL, JR., T.B. PROPOSED USA STANDARD-SYNCHRONOUS SIGNALING RATES FOR DATA TRANSMISSION & ASA X3 6811
- 6811 8 576
- 6811 8 577
- 6811 -11 -781 CORRESPONDENCES OF 8-BIT AND HOLLERITH CODES FOR COMPUTER ENVIRONMENTS: A USASI TUTORIAL # ASA X3 PROPOSED USA STANDARD-PROCEDURES FOR THE STANDARDIZATION PROCESS # ASA X3
- 6811 12 846
- 6811 12 849 PROPOSED USA STANDARD-CODE EXTENSION PROCEDURES FOR INFORMATION INTERCHANGE # ASA X3

SPECIAL REPORTS

- 3 198 RULES OF ETHICS IN INFORMATION PROCESSING : PARKER, D.B.
- THE EXPANDING WORLD OF COMPUTERS # HARDER, E.L.
- A FUTURES MARKET IN COMPUTER TIME & SUTHERLAND, I.E.

PROCEEDINGS OF THE ACM SYMPOSIUM ON OPERATING SYSTEMS PRINCIPLES GATLINBERG, TENNESSEE OCTOBER 1-4, 1967

- 6811 5 297 6811 5 306
- 5 313 6811
- 6811 5 323
- DYNAMIC STORAGE ALLOCATION SYSTEMS * RANDELL, B./ KUEHNER, C.J.

 VIRTUAL MEMORY, PROCESSES, AND SHARING IN MULTICS * DALEY, R.C./ DENNIS, J.B.

 RESOURCE MANAGEMENT FOR A MEDIUM SCALE TIME-SHARING OPERATING SYSTEM ** OPPENHEIMER, G./ WEIZER, N.

 THE WORKING SET MODEL FOR PROGRAM BEHAVIOR ** DENNING, P.J.

 CONSIDERATIONS IN THE DESIGN OF A MULTIPLE COMPUTER SYSTEM WITH EXTENDED CORE STORAGE ** FUCHEL, K./ HELLER, S. 6811 5 334
- 5 341 THE STRUCTURE OF "THE"-MULTIPROGRAMMING SYSTEM # DIJKSTRA, E.W. 6811
- 6811 5 347 A SCHEDULING PHILOSOPHY FOR MULTIPROCESSING SYSTEMS # LAMPSON, B.W.
- 6811 5 360 THREE CRITERIA FOR DESIGNING COMPUTING SYSTEMS TO FACILITATE DEBUGGING : VAN HORN, E.C.
- 6811 5 365
- PROTECTION IN AN INFORMATION PROCESSING UTILITY " GRAHAM, R.M. A POSITION PAPER ON COMPUTING AND COMMUNICATIONS : DENNIS, J.B. 6811 5 370

LETTERS TO THE EDITOR

- 6811
- IMPROVED HAMILTONIAN PATHS # DUBY, J.J. FURTHER COMMENT ON THE COMPUTATION OF LEAST SQUARES POLYNOMIALS # GENTLEMAN, W.M. 73 6811
- 3 147 6811
- GO TO STATEMENT CONSIDERED HARMFUL " DIJKSTRA, E.W. LANGUAGE PROTECTION BY TRADEMARK ILL-ADVISED " GALLER, B.A. 6811 3 148
- 6811 NO TROUBLE WITH ATLAS I PAGE-TURNING MECHANISM : HOWLETT, J
- ON PRACTICALITY OF SIEVING TECHNIQUES VS. THE SIEVING ALGORITHM : HOWLAND, J.E. DEALING WITH NEELY'S ALGORITHMS : VAN REEKEN, A.J. . 3 149 6811
- 6811 3 149
- ABBREVIATIONS FOR COMPUTER AND MEMORY SIZES # MORRISON, D.R. 6811 3 150
- 6811 3 150
- IN DEFENSE OF LANGDON'S ALGORITHM # RODDEN, B.E. ENDORSING THE ILLINOIS POST MORTEM DUMP # CLARK, S.R. 6811 3 150
- 6811 5 294
- ON USING A GRAPHIC INPUT TABLET " YARBROUGH, L.D.
 GATHERING OF MISLEADING DATA WITH LITTLE REGARD FOR PRIVACY " ABBOTT, R.J. 6811 5 377
- COMMENTS ON "AN IMPROVED HASH CODE FOR SCATTER STORAGE" " BEYER, J.D. 6811 5 378
- ON THE DEVELOPMENT OF A NEW COMMON COMPUTER LANGUAGE # SHAW, D.J. 6811 6 391
- 6811 6 391
- PROPOSED ABBREVIATION FOR 1024:bk # GIVENS, C.
 ON THE EVALUATION OF MULTIPLICATIVE COMBINATORIAL EXPRESSIONS # MCKAY, J.K.S. 6 392 6811
- 6811 6 392
- AN AUXILIARY PROGRAM TO ANALYZE LISP 1.5 PROGRAMS # BAHR, K. GENERATING PERMUTATIONS BY NESTED CYCLING # LANGDON, JR., G.G. 6811 6 392
- 6811 7 474 NUMBER OF POSSIBLE STRATEGIES WHEN WRITING COMPILERS # GOOD, 1.J.
- 6811 8 538 CORRECTIONS TO STONE'S COMPILER PROCEDURES # DEVEBER, J.L.
- 6811 8 538
- 6811 9 593
- 6811 9 593
- 9 594 6811
- THE GO TO STATEMENT RECONSIDERED * RICE, J.R.

 PROPOSED LIBRARY OF PROGRAMS FOR PERSONNEL AND RELATED WORK * MAPP, G.A.

 ON CONGRESSMAN BROOKS LETTER RE STANDARDIZATION * FITZGERALD, A.K.

 A BASE FOR LANGUAGE DEFINITION * BENNETT, R.K.

 ON COMPUTER APPRECIATION IN THE UNDERGRADUATE CURRICULUM * KRISCHER, J.P. 6811 9 594
- 6811 10 657 A MACHINE ALGORITHM FOR PROCESSING CALENDAR DATES # FLIEGEL, H.F./ VAN FLANDERN, T.C.
- ON "PRIME PHRASE" IN FELDMAN AND GRIES PAPER : ABRAHAMS, P. 6811 10 657
- DO YOU USE MICROFICHE? * WOOSTER, H. 6811 10 657
- COMMENT ON CURRICULUM 68 # WISHNER, R.P. 6811 10 658
- 6811 10 658 ON BINARY NOTATION : MARTIN, B.A.
- 6811 12 801
- SIMULATION OF ONE ABSTRACT COMPUTING MACHINE BY ANOTHER # HERMAN, G.T. PROPRIETARY PACKAGES: A POINT OF VIEW # GALLER, B.A. / PINKERTON, T.B. / ARDEN, B.W. ON MASTER'S LEVEL CURRICULA SURVEY # MANIOTES, J. 6811 12 802
- 6811 12 802